To:

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ELI LILLY AND COMPANY

Patent Division

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year)

23.03.2004

Applicant's or agent's file reference

X-15654 V

IMPORTANT NOTIFICATION

International application No. PCT/US 03/05050

International filing date (day/month/year)

Priority date (day/month/year)

04.03.2003

05.03.2002

Applicant

ELI LILLY AND COMPANY et al.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

9)

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Ullrich, J

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference X-15654			FOR FURTHER A	CTION		tion of Transmittal of Internal Examination Report (Form P		
Internatio PCT/US		lication No.	International filing date 04.03.2003	International filing date (day/month/year) 04.03.2003			Priority date (day/month/year) 05.03.2002	
Internatio C07D48		ent Classification (IPC) or bo	Loth national classification	and IPC				
Applicant ELI LILI		D COMPANY et al.						
		national preliminary exar and is transmitted to the				nternational Preliminary Ex	xamining	
2. Th	2. This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
. Th	These annexes consist of a total of sheets.							
This report contains indications relating to the following items:								
ı	\boxtimes	Basis of the opinion						
н		Priority		-				
DI.	\boxtimes	Non-establishment of	opinion with regard to n	ovelty, ir	ventive step	and industrial applicabilit	ty	
IV		Lack of unity of inventi	on					
V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industricitations and explanations supporting such statement				al applicability;				
VI		Certain documents cite	ed					
VI		Certain defects in the i	nternational application	1				
VI	[Certain observations o	n the international app	lication				
Date of s	ubmissio	on of the demand		Date of	completion of	this report		
10.09.2	10.09.2003			23.03.	2004			
		g address of the internation	al	Authoriz	ed Officer			
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx. 523656 epmu d Fax: +49 89 2399 - 4465			Schmi Telepho	d, A one No. +49 89	9 2399-8591	Contraction of the contraction o		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US 03/05050

	Ba	-:-		46-		
1.	Da	SIS	OI	ıne	reu	OIL

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages					
	1-5	2	as originally filed				
	Cla	ims, Numbers					
	1-9		as originally filed				
2.	With	h regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.				
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.3	inslation furnished for the purposes of international preliminary examination (under 3).				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inter	rnational application in written form.				
		filed together with the	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequer	ntly to this Authority in computer readable form.				
		The statement that the international a	ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furnit	ne information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to the				
6.	Add	litional observations, i	f necessary:				

Form PCT/IPEA/409 (January 2004)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US 03/05050

III.	ll. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
1.	 The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of: 							
		the entire international applica	tion,					
	\boxtimes	claims Nos. 7-9						
		because:						
the said international application, or the said claims Nos. 7-9 relate to the following subject madoes not require an international preliminary examination (specify):								
see separate sheet								
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opini could be formed.							
		no international search report	has be	en establish	ed for the said claims Nos.			
2.	2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:							
☐ the written form has not been furnished or does not comply with the Standard.				ot comply with the Standard.				
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.			
٧.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; tations and explanations supporting such statement						
1.	Stat	tatement						
No		ovelty (N)		Claims Claims	1-9			
	Inve	Inventive step (IS)		Claims Claims	1-9			
Ind		estrial applicability (IA)	Yes: No:	Claims Claims	1-6			

Form PCT/IPEA/409 (January 2004)

2. Citations and explanations

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1) Claims 7-9 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1) The closest prior with is represented by WO-A-38675 (D3) concerns 3-indolyl-pyrrole-2,5-diones for use as inhibitors of GSK3.
 - The compounds disclosed there differ from the present ones in an additional ring annelated to the indolyl residue.
 - Accordingly the present subject-matter is novel with respect to Article 33(2) PCT.
- 2) Since a skilled person looking for alternative GSK inhibitors would surely not try to modify the known structure in the way as done with a reasonable hope to get GSK inhibitors as could be proved by the applicant (cf. test results for compound 121 on pages 146-148, for the compounds on the table of page 149, for compound 252 on page 150 and the test results in general of the present compounds on page 145, lines 10, 11) the present subject could be considered to involve an inventive step with regard to Article 33(3) PCT.
- 3) For the assessment of the present claims 7-9 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however,



International application No. PCT/US03/05050

EXAMINATION REPORT - SEPARATE SHEET

claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.